

FIBERS SITE GROUP

March 10, 2016

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA
Response and Remediation Branch
U.S Environmental Protection Agency
City View Plaza II - Suite 7000
48 RD, 165 Km. 1.2
Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report –February 2016
Fibers Public Supply Wells Site
Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *Unites States v. Anaquest Caribe, Inc. et al*, Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,



Joe Biss, CHMM
Fibers Site Group Project Coordinator
EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Mel Hauptman- via email only
Ms. Evelyn Rivera-Ocasio, Assistant Regional Counsel – Caribbean Programs – via email only
Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)
State Remedial Project Manager, Puerto Rico Environmental Quality Board
Ms. Katherine Mishkin, Hydrogeologist, USEPA Superfund Technical Support Section – via email only
Ms. Enid Diaz, Departamento de Recursos Naturales y Ambientales
Mr. Jorge Morales, PRIDCO - via email only
Mr. Joel Melendez Rodriguez, PRIDCO - via email only
Ms. Ana Palou Balsa, PRIDCO – via email only
Mr. Dan Vineyard, Jackson Walker- via email only
James Kirschner, Arcadis - via email only

RD/RA Monthly Report – February 2016
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

The Fibers groundwater extraction and treatment system (GWETS) was operational for approximately 77% of the time during February 2016. The GWETS had three automated shut downs due to power outages, and was then started at the Site the next day. In addition, it had three shut downs due to equipment faults and maintenance.

A summary of the daily treatment system operating records is presented in Table 1. The GWETS average flow rates are depicted on Figure 1. The GWETS operated at an average flow rate of 231 gallons per minute (gpm) and treated approximately 10.00 million gallons of water in February 2016. To date (since May 1999), approximately 3.01 billion gallons of water have been treated at the Fibers Site.

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

Groundwater influent and effluent samples were collected and analyzed in February 2016. A summary of the February 2016 GWETS laboratory analytical results are provided in Table 2. A summary of influent groundwater concentrations of tetrachloroethene (PCE) and total haloethers from the GWETS is depicted on Figures 2 and 3, respectively.

Arcadis U.S. Inc. (Arcadis) performed a data quality assessment (validation) of the laboratory analytical results reported by Pace Analytical Services, Inc. Results are summarized in the Data Review Report included as Attachment 1. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete laboratory analytical report is provided as Attachment 2. A copy of the field notes documenting sample collection information, individual flow rates at the three groundwater extraction wells and treatment system parameters is provided as Attachment 3.

(c) List of all work plans, plans and other deliverables completed and submitted.

The second semi-annual groundwater monitoring and sampling report for 2015 was completed and submitted to the United States Environmental Protection Agency (USEPA) on February 3, 2016. A Groundwater Extraction and Treatment System Sampling, Analysis and Monitoring Plan was completed and submitted to the USEPA on February 3, 2016.

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

An Operations, Maintenance, and Monitoring Manual is anticipated to be submitted to the USEPA in March 2016.

A Notice of Completion Report, with stamped engineering as-built construction drawings, is anticipated to be submitted to the USEPA in April 2016.

The first semi-annual groundwater monitoring and sampling event of 2016 will commence in April, 2016.

Environmental Resource Technologies (ERTEC) completed the second phase of the subsurface soil investigation at the Baxter-Guayama facility on the Fibers Site in October 2015. Upon completion of the data validation, a summary of results from ERTEC's Phase 2 subsurface investigation will be included in a subsequent monthly report.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

Construction Activities – 100% complete.

System Start-Up – 100% complete.

Start-Up Performance Monitoring – 100% complete.

Long-Term Operation & Maintenance Period – In progress.

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.

Tables

Table 1
Summary of Daily Treatment System Operating Records - February 2016
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) ¹	Effluent Flow (gpm) ²	RW-2 (gpm) ³	RW-4 (gpm) ⁴	RW-5 (gpm) ⁵	pH ⁶	Comments
2/1/2016	253	275	94	121	40	8.3	Transfer pump maintenance.
2/2/2016	302	308	110	146	47	8.3	
2/3/2016	298	304	111	145	47	8.3	
2/4/2016	304	306	110	145	47	8.3	
2/5/2016	186	187	69	91	30	8.2	Power loss.
2/6/2016	128	123	49	62	20	8.2	Start up system.
2/7/2016	298	316	111	145	47	8.2	
2/8/2016	286	291	106	139	45	8.1	
2/9/2016	298	308	111	146	47	8.1	
2/10/2016	302	322	110	145	48	8.1	
2/11/2016	303	299	111	146	48	8.1	
2/12/2016	298	311	110	145	48	8.1	
2/13/2016	300	308	110	144	48	8.1	
2/14/2016	297	313	111	146	48	8.1	
2/15/2016	264	267	97	127	43	8.1	System down due to high water level in sump; filter clogged.
2/16/2016	160	165	61	78	24	8.1	Replaced sump filter; start up system.
2/17/2016	326	337	121	154	47	8.1	
2/18/2016	241	253	91	117	36	8.1	Transfer pumps fault; system down.
2/19/2016	54	55	22	28	9	8.1	Start up system.
2/20/2016	297	307	111	142	44	8.2	Power loss.
2/21/2016	0	0	0	0	0	7.5	System down.
2/22/2016	114	117	47	47	24	8.2	Start up system. System operating with transfer pump TP-202A. Transfer pump TP-201A jammed due to scale buildup; decreased RW flow rate.
2/23/2016	76	77	30	30	15	8.1	Treatment maintenance; shut down system.
2/24/2016	125	114	53	53	20	8.2	Start up system. Both transfer pumps operating.
2/25/2016	310	324	126	132	48	8.2	
2/26/2016	302	315	126	131	48	8.1	
2/27/2016	301	296	126	130	48	8.1	

Table 1
Summary of Daily Treatment System Operating Records - February 2016
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

2/28/2016	122	125	53	54	21	8.0	Power loss.
2/29/2016	165	173	63	77	26	8.1	Start up system.
Monthly Average	231	237	88	109	37	8.1	

Notes:

Flow rates are 24-hour daily average.

gpm = gallons per minute.

¹ = Recorded from instrument FIT-101.

² = Recorded from instrument FIT-301.

³ = Recorded from instrument RW2 FIT.

⁴ = Recorded from instrument RW4 FIT.

⁵ = Recorded from instrument RW5 FIT.

⁶ = Recorded from instrument pHIT-201A.

Table 2
Summary of Treatment System Laboratory Analytical Results
February 2016
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Fibers Groundwater Extraction and Treatment System

Laboratory analytical results for water samples collected at the influent and effluent sample tap locations from the Fibers Groundwater Extraction and Treatment System on February 2, 2016 are presented below. The system average effluent flow rate at the time the samples were collected was 292 gallons per minute (gpm). Sample results indicate that the treatment system is operating in compliance with operating parameters pursuant to the Consent Decree.

Compound	VOC (µg/L)			
	Sample ID			
	EFF-20160202	EFFDUP-20160202	INF-20160202	TB-20160202
Tetrachloroethene	ND	ND	8.5	ND
Enflurane	ND	ND	2.2	ND
Haloether 229	ND	ND	36.1	ND
Haloether 406	ND	ND	1.5	ND
Haloether 508	ND	ND	78.0	ND
Haloether 528	ND	ND	2.1	ND
Halomar	ND	ND	1.5	ND
Isoflurane	ND	ND	121	ND
Total Haloethers	ND	ND	243	ND
Acetone	13.3	18.8	6.9	ND
Other VOC	ND	ND	ND	ND

Notes:

VOC = volatile organic compounds.

µg/L = micrograms per liter.

EFF = effluent sample.

EFFDUP = effluent duplicate sample.

INF = influent sample.

TB = trip blank.

ND = not detected at or above laboratory reporting limit.

Figures

Figure 1
Fibers Public Supply Wells Superfund Site
Summary of Treatment System Flow Rates

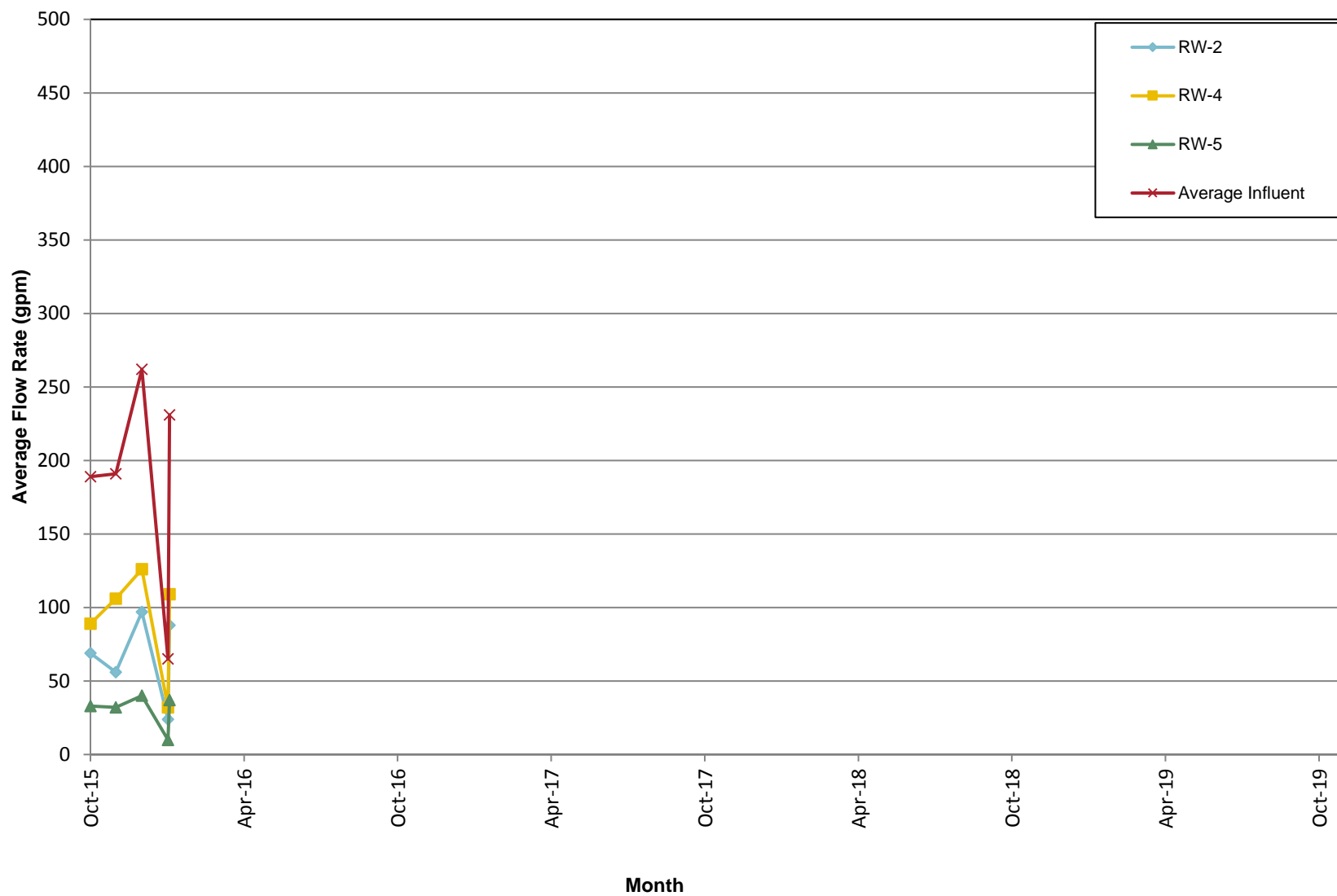


Figure 2
Fibers Public Supply Wells Superfund Site
Treatment System Influent -
Tetrachloroethene (PCE) Concentrations

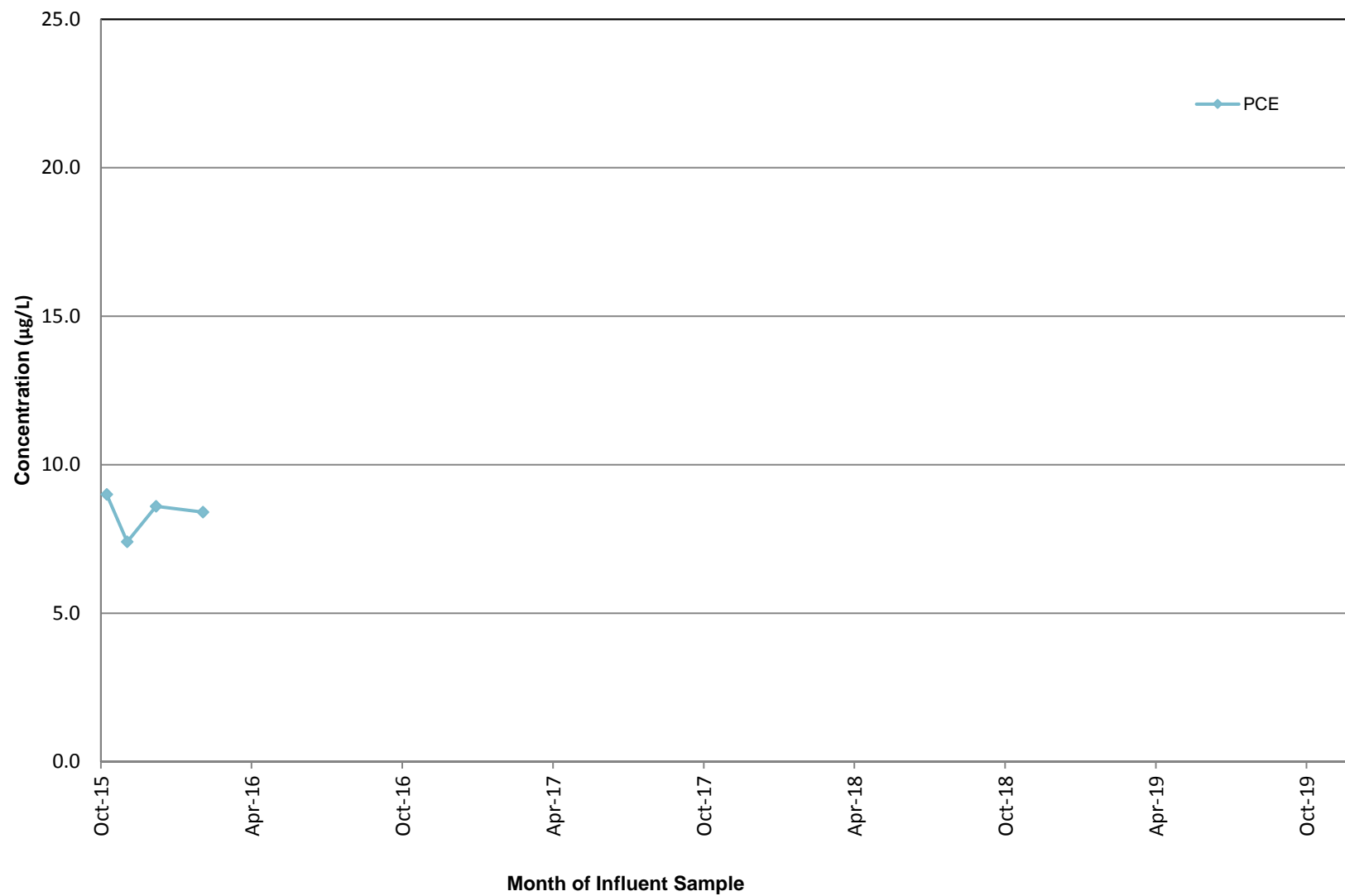
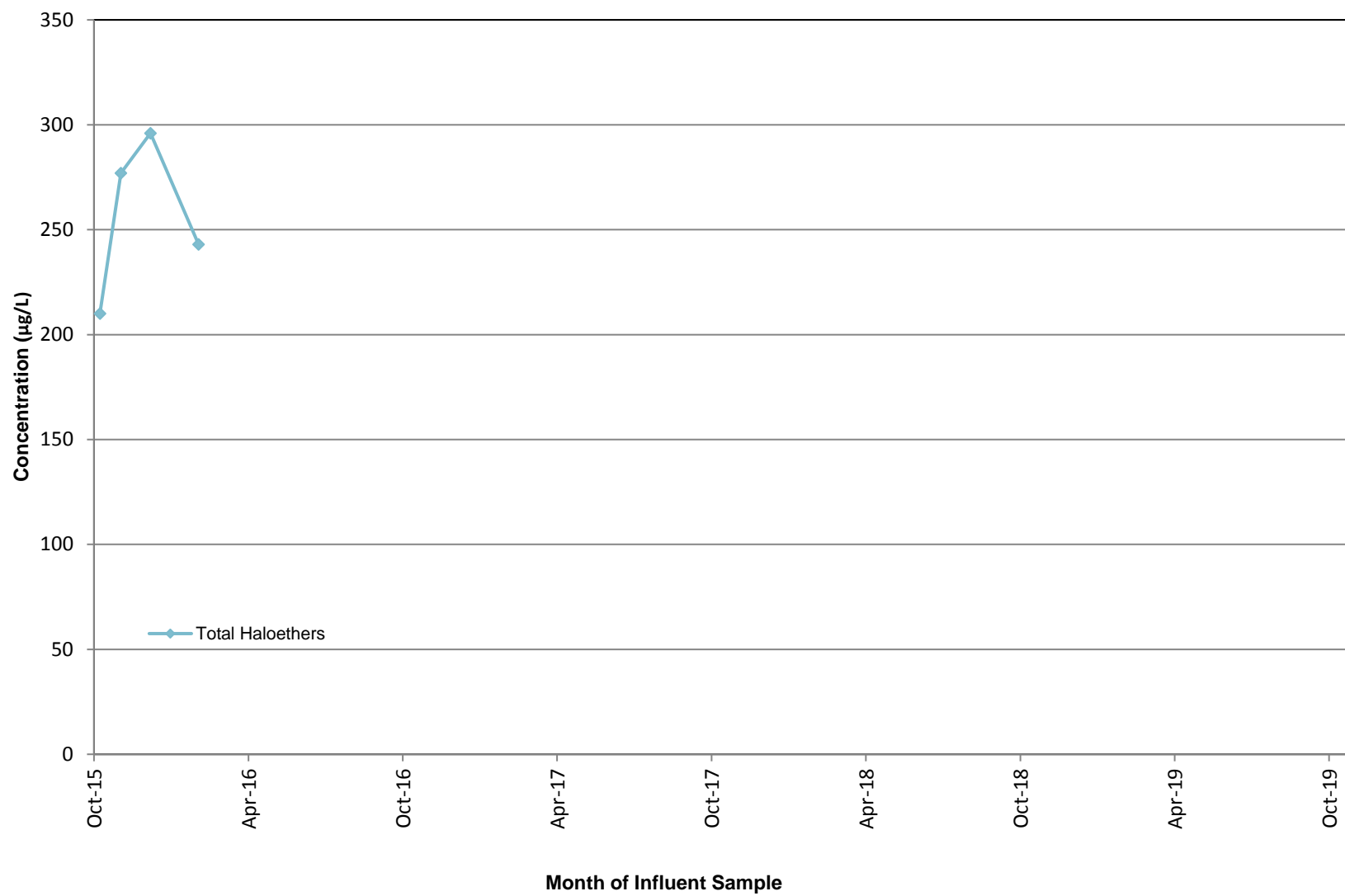


Figure 3
Fibers Public Supply Wells Superfund Site
Treatment System Influent -
Total Haloethers Concentrations



Attachment 1
Data Review Report

Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #2031974

Analyses Performed By:
Pace Analytical Services, Inc.
New Orleans, Louisiana

Report: #25178R

Review Level: Tier II

Project: CO001911.0002.1507A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #2031974 for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
TB-20160202	2031974001	Water	02/02/2016		X				
INF-20160202	2031974002	Water	02/02/2016		X				
EFF-20160202	2031974003	Water	02/02/2016		X				
EFFDUP-20160202	2031974004	Water	02/02/2016	EFF-20160202	X				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20160202.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
EFF-20160202	Acrolein	<10%	<10%
	m&p-Xylene		
	Styrene		
	o-Xylene	<LL but >10%	<LL but >10%

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20160202/ EFFDUP-20160202	Acetone	13.3	18.8	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

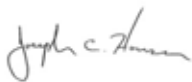
DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) Accuracy (%R)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Surrogate Spike %R		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
 RPD Relative percent difference
 %RSD Relative standard deviation
 %D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: February 18, 2016

PEER REVIEW: Dennis Capria

DATE: February 22, 2016

**CHAIN OF CUSTODY/
ANNOTATED SAMPLE ANALYSIS DATA SHEETS**

ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: TB-20160202		Lab ID: 2031974001		Collected: 02/02/16 00:00		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		02/03/16 16:24	67-64-1		
Acrolein	ND	ug/L	8.0	1		02/03/16 16:24	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 16:24	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 16:24	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 16:24	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 16:24	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 16:24	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 16:24	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 16:24	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 16:24	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 16:24	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 16:24	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 16:24	67-66-3		
Chloromethane	ND	ug/L	1.0	1		02/03/16 16:24	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 16:24	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/03/16 16:24	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 16:24	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:24	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:24	10061-02-6		
Enflurane	ND	ug/L	1.0	1		02/03/16 16:24	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 16:24	100-41-4		
Haloether 229	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 406	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 421	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 427	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 428	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 508	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 528	ND	ug/L	1.0	1		02/03/16 16:24			
Halomar	ND	ug/L	1.0	1		02/03/16 16:24			
2-Hexanone	ND	ug/L	2.0	1		02/03/16 16:24	591-78-6		
Isoflurane	ND	ug/L	1.0	1		02/03/16 16:24			
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 16:24	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 16:24	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 16:24	108-10-1		
Styrene	ND	ug/L	1.0	1		02/03/16 16:24	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 16:24	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		02/03/16 16:24	127-18-4		
Toluene	ND	ug/L	1.0	1		02/03/16 16:24	108-88-3		
Total Haloether	ND	ug/L	1.0	1		02/03/16 16:24			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	79-01-6		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: TB-20160202		Lab ID: 2031974001		Collected: 02/02/16 00:00		Received: 02/03/16 08:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane		ND	ug/L	1.0	1		02/03/16 16:24	75-69-4	
1,2,3-Trichloropropane		ND	ug/L	1.0	1		02/03/16 16:24	96-18-4	
1,1,2-Trichlorotrifluoroethane		ND	ug/L	1.0	1		02/03/16 16:24	76-13-1	
Vinyl chloride		ND	ug/L	1.0	1		02/03/16 16:24	75-01-4	
m&p-Xylene		ND	ug/L	2.0	1		02/03/16 16:24	179601-23-1	
o-Xylene		ND	ug/L	1.0	1		02/03/16 16:24	95-47-6	
Surrogates									
Toluene-d8 (S)		100	%.	79-119	1		02/03/16 16:24	2037-26-5	
4-Bromofluorobenzene (S)		104	%.	68-124	1		02/03/16 16:24	460-00-4	
Dibromofluoromethane (S)		108	%.	72-126	1		02/03/16 16:24	1868-53-7	

Sample: INF-20160202		Lab ID: 2031974002		Collected: 02/02/16 09:13		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	6.9	ug/L	4.0	1		02/03/16 16:42	67-64-1		
Acrolein	ND	ug/L	8.0	1		02/03/16 16:42	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 16:42	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 16:42	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 16:42	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 16:42	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 16:42	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 16:42	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 16:42	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 16:42	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 16:42	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 16:42	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 16:42	67-66-3		
Chloromethane	ND	ug/L	1.0	1		02/03/16 16:42	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 16:42	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/03/16 16:42	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 16:42	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:42	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:42	10061-02-6		
Enflurane	2.2	ug/L	1.0	1		02/03/16 16:42	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 16:42	100-41-4		
Haloether 229	36.1	ug/L	1.0	1		02/03/16 16:42			
Haloether 406	1.5	ug/L	1.0	1		02/03/16 16:42			
Haloether 421	ND	ug/L	1.0	1		02/03/16 16:42			
Haloether 427	ND	ug/L	1.0	1		02/03/16 16:42			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2031974

Sample: INF-20160202		Lab ID: 2031974002		Collected: 02/02/16 09:13		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Haloether 428	ND	ug/L	1.0	1		02/03/16 16:42			
Haloether 508	78.0	ug/L	1.0	1		02/03/16 16:42			
Haloether 528	2.1	ug/L	1.0	1		02/03/16 16:42			
Halomar	1.5	ug/L	1.0	1		02/03/16 16:42			
2-Hexanone	ND	ug/L	2.0	1		02/03/16 16:42	591-78-6		
Isoflurane	121	ug/L	1.0	1		02/03/16 16:42			
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 16:42	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 16:42	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 16:42	108-10-1		
Styrene	ND	ug/L	1.0	1		02/03/16 16:42	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 16:42	79-34-5		
Tetrachloroethene	8.5	ug/L	1.0	1		02/03/16 16:42	127-18-4		
Toluene	ND	ug/L	1.0	1		02/03/16 16:42	108-88-3		
Total Haloether	243	ug/L	1.0	1		02/03/16 16:42			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		02/03/16 16:42	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/03/16 16:42	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/03/16 16:42	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		02/03/16 16:42	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		02/03/16 16:42	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		02/03/16 16:42	95-47-6		
Surrogates									
Toluene-d8 (S)	99	%	79-119	1		02/03/16 16:42	2037-26-5		
4-Bromofluorobenzene (S)	104	%	68-124	1		02/03/16 16:42	460-00-4		
Dibromofluoromethane (S)	104	%	72-126	1		02/03/16 16:42	1868-53-7		

Sample: EFF-20160202		Lab ID: 2031974003		Collected: 02/02/16 09:38		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	13.3	ug/L	4.0	1		02/03/16 17:18	67-64-1		
Acrolein	ND	ug/L	8.0	1		02/03/16 17:18	107-02-8	M1 R	
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 17:18	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 17:18	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 17:18	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 17:18	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 17:18	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 17:18	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 17:18	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 17:18	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 17:18	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 17:18	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 17:18	67-66-3		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2031974

Sample: EFF-20160202 Lab ID: 2031974003 Collected: 02/02/16 09:38 Received: 02/03/16 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS Analytical Method: EPA 5030B/8260								
Chloromethane	ND	ug/L	1.0	1		02/03/16 17:18	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 17:18	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/03/16 17:18	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 17:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:18	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/03/16 17:18	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 17:18	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/03/16 17:18		
Haloether 406	ND	ug/L	1.0	1		02/03/16 17:18		
Haloether 421	ND	ug/L	1.0	1		02/03/16 17:18		
Haloether 427	ND	ug/L	1.0	1		02/03/16 17:18		
Haloether 428	ND	ug/L	1.0	1		02/03/16 17:18		
Haloether 508	ND	ug/L	1.0	1		02/03/16 17:18		
Haloether 528	ND	ug/L	1.0	1		02/03/16 17:18		
Halomar	ND	ug/L	1.0	1		02/03/16 17:18		
2-Hexanone	ND	ug/L	2.0	1		02/03/16 17:18	591-78-6	
Isoflurane	ND	ug/L	1.0	1		02/03/16 17:18		
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 17:18	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 17:18	108-10-1	
Styrene	ND	ug/L	1.0	1		02/03/16 17:18	100-42-5	-M1 R
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/03/16 17:18	127-18-4	
Toluene	ND	ug/L	1.0	1		02/03/16 17:18	108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/03/16 17:18		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/03/16 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/03/16 17:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/03/16 17:18	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/03/16 17:18	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/03/16 17:18	179601-23-1	M1 R
o-Xylene	ND	ug/L	1.0	1		02/03/16 17:18	95-47-6	-M1 UJ
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		02/03/16 17:18	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	68-124	1		02/03/16 17:18	460-00-4	
Dibromofluoromethane (S)	107	%.	72-126	1		02/03/16 17:18	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: EFFDUP-20160202		Lab ID: 2031974004		Collected: 02/02/16 09:38		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	18.8	ug/L	4.0	1		02/03/16 17:00	67-64-1		
Acrolein	ND	ug/L	8.0	1		02/03/16 17:00	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 17:00	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 17:00	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 17:00	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 17:00	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 17:00	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 17:00	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 17:00	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 17:00	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 17:00	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 17:00	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 17:00	67-66-3		
Chloromethane	ND	ug/L	1.0	1		02/03/16 17:00	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 17:00	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/03/16 17:00	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 17:00	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:00	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:00	10061-02-6		
Enflurane	ND	ug/L	1.0	1		02/03/16 17:00	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 17:00	100-41-4		
Haloether 229	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 406	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 421	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 427	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 428	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 508	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 528	ND	ug/L	1.0	1		02/03/16 17:00			
Halomar	ND	ug/L	1.0	1		02/03/16 17:00			
2-Hexanone	ND	ug/L	2.0	1		02/03/16 17:00	591-78-6		
Isoflurane	ND	ug/L	1.0	1		02/03/16 17:00			
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 17:00	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 17:00	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 17:00	108-10-1		
Styrene	ND	ug/L	1.0	1		02/03/16 17:00	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 17:00	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		02/03/16 17:00	127-18-4		
Toluene	ND	ug/L	1.0	1		02/03/16 17:00	108-88-3		
Total Haloether	ND	ug/L	1.0	1		02/03/16 17:00			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	79-01-6		

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: EFFDUP-20160202		Lab ID: 2031974004		Collected: 02/02/16 09:38		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/03/16 17:00	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/03/16 17:00	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/03/16 17:00	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		02/03/16 17:00	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		02/03/16 17:00	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		02/03/16 17:00	95-47-6		
Surrogates									
Toluene-d8 (S)	97	%.	79-119	1		02/03/16 17:00	2037-26-5		
4-Bromofluorobenzene (S)	102	%.	68-124	1		02/03/16 17:00	460-00-4		
Dibromofluoromethane (S)	108	%.	72-126	1		02/03/16 17:00	1868-53-7		

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Attachment 2
Laboratory Analytical Report

February 15, 2016

David Howard
ARCADIS
410 North 44th St.
Suite 1000
Phoenix, AZ 85008

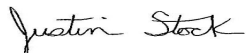
RE: Project: Fibers Public Supply Wells
Pace Project No.: 2031974

Dear David Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Justin L. Stock
justin.stock@pacelabs.com
Project Manager

Enclosures

cc: Janisse Diaz, Arcadis
Cassandra McCloud
Marla Miller, ARCADIS U.S.
Elvin Varela, ARCADIS



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CERTIFICATIONS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:
11277CA

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylvania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

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SAMPLE SUMMARY

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2031974001	TB-20160202	Water	02/02/16 00:00	02/03/16 08:55
2031974002	INF-20160202	Water	02/02/16 09:13	02/03/16 08:55
2031974003	EFF-20160202	Water	02/02/16 09:38	02/03/16 08:55
2031974004	EFFDUP-20160202	Water	02/02/16 09:38	02/03/16 08:55

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SAMPLE ANALYTE COUNT

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2031974001	TB-20160202	EPA 5030B/8260	MLS	56	PASI-N
2031974002	INF-20160202	EPA 5030B/8260	MLS	56	PASI-N
2031974003	EFF-20160202	EPA 5030B/8260	MLS	56	PASI-N
2031974004	EFFDUP-20160202	EPA 5030B/8260	MLS	56	PASI-N

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PROJECT NARRATIVE

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: February 15, 2016

General Information:

4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4380

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2031826010,2031974003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 196457)
 - Isoflurane
- MS (Lab ID: 196627)
 - Acrolein
 - Styrene
 - m&p-Xylene
 - o-Xylene
- MSD (Lab ID: 196628)
 - Acrolein
 - Styrene
 - m&p-Xylene
 - o-Xylene

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PROJECT NARRATIVE

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: February 15, 2016

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: TB-20160202		Lab ID: 2031974001		Collected: 02/02/16 00:00		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		02/03/16 16:24	67-64-1		
Acrolein	ND	ug/L	8.0	1		02/03/16 16:24	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 16:24	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 16:24	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 16:24	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 16:24	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 16:24	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 16:24	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 16:24	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 16:24	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 16:24	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 16:24	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 16:24	67-66-3		
Chloromethane	ND	ug/L	1.0	1		02/03/16 16:24	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 16:24	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/03/16 16:24	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 16:24	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:24	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:24	10061-02-6		
Enflurane	ND	ug/L	1.0	1		02/03/16 16:24	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 16:24	100-41-4		
Haloether 229	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 406	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 421	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 427	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 428	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 508	ND	ug/L	1.0	1		02/03/16 16:24			
Haloether 528	ND	ug/L	1.0	1		02/03/16 16:24			
Halomar	ND	ug/L	1.0	1		02/03/16 16:24			
2-Hexanone	ND	ug/L	2.0	1		02/03/16 16:24	591-78-6		
Isoflurane	ND	ug/L	1.0	1		02/03/16 16:24			
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 16:24	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 16:24	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 16:24	108-10-1		
Styrene	ND	ug/L	1.0	1		02/03/16 16:24	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 16:24	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		02/03/16 16:24	127-18-4		
Toluene	ND	ug/L	1.0	1		02/03/16 16:24	108-88-3		
Total Haloether	ND	ug/L	1.0	1		02/03/16 16:24			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:24	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/03/16 16:24	79-01-6		

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: TB-20160202		Lab ID: 2031974001		Collected: 02/02/16 00:00		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/03/16 16:24	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/03/16 16:24	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/03/16 16:24	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		02/03/16 16:24	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		02/03/16 16:24	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		02/03/16 16:24	95-47-6		
Surrogates									
Toluene-d8 (S)	100	%.	79-119	1		02/03/16 16:24	2037-26-5		
4-Bromofluorobenzene (S)	104	%.	68-124	1		02/03/16 16:24	460-00-4		
Dibromofluoromethane (S)	108	%.	72-126	1		02/03/16 16:24	1868-53-7		

Sample: INF-20160202		Lab ID: 2031974002		Collected: 02/02/16 09:13		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	6.9	ug/L	4.0	1		02/03/16 16:42	67-64-1		
Acrolein	ND	ug/L	8.0	1		02/03/16 16:42	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 16:42	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 16:42	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 16:42	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 16:42	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 16:42	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 16:42	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 16:42	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 16:42	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 16:42	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 16:42	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 16:42	67-66-3		
Chloromethane	ND	ug/L	1.0	1		02/03/16 16:42	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 16:42	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/03/16 16:42	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 16:42	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:42	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 16:42	10061-02-6		
Enflurane	2.2	ug/L	1.0	1		02/03/16 16:42	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 16:42	100-41-4		
Haloether 229	36.1	ug/L	1.0	1		02/03/16 16:42			
Haloether 406	1.5	ug/L	1.0	1		02/03/16 16:42			
Haloether 421	ND	ug/L	1.0	1		02/03/16 16:42			
Haloether 427	ND	ug/L	1.0	1		02/03/16 16:42			

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: INF-20160202		Lab ID: 2031974002		Collected: 02/02/16 09:13		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Haloether 428	ND	ug/L	1.0	1		02/03/16 16:42			
Haloether 508	78.0	ug/L	1.0	1		02/03/16 16:42			
Haloether 528	2.1	ug/L	1.0	1		02/03/16 16:42			
Halomar	1.5	ug/L	1.0	1		02/03/16 16:42			
2-Hexanone	ND	ug/L	2.0	1		02/03/16 16:42	591-78-6		
Isoflurane	121	ug/L	1.0	1		02/03/16 16:42			
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 16:42	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 16:42	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 16:42	108-10-1		
Styrene	ND	ug/L	1.0	1		02/03/16 16:42	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 16:42	79-34-5		
Tetrachloroethene	8.5	ug/L	1.0	1		02/03/16 16:42	127-18-4		
Toluene	ND	ug/L	1.0	1		02/03/16 16:42	108-88-3		
Total Haloether	243	ug/L	1.0	1		02/03/16 16:42			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 16:42	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/03/16 16:42	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		02/03/16 16:42	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/03/16 16:42	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/03/16 16:42	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		02/03/16 16:42	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		02/03/16 16:42	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		02/03/16 16:42	95-47-6		
Surrogates									
Toluene-d8 (S)	99	%.	79-119	1		02/03/16 16:42	2037-26-5		
4-Bromofluorobenzene (S)	104	%.	68-124	1		02/03/16 16:42	460-00-4		
Dibromofluoromethane (S)	104	%.	72-126	1		02/03/16 16:42	1868-53-7		

Sample: EFF-20160202		Lab ID: 2031974003		Collected: 02/02/16 09:38		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	13.3	ug/L	4.0	1		02/03/16 17:18	67-64-1	M1	
Acrolein	ND	ug/L	8.0	1		02/03/16 17:18	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 17:18	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 17:18	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 17:18	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 17:18	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 17:18	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 17:18	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 17:18	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 17:18	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 17:18	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 17:18	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 17:18	67-66-3		

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: EFF-20160202		Lab ID: 2031974003		Collected: 02/02/16 09:38		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		02/03/16 17:18	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 17:18	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/03/16 17:18	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 17:18	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:18	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:18	10061-02-6		
Enflurane	ND	ug/L	1.0	1		02/03/16 17:18	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 17:18	100-41-4		
Haloether 229	ND	ug/L	1.0	1		02/03/16 17:18			
Haloether 406	ND	ug/L	1.0	1		02/03/16 17:18			
Haloether 421	ND	ug/L	1.0	1		02/03/16 17:18			
Haloether 427	ND	ug/L	1.0	1		02/03/16 17:18			
Haloether 428	ND	ug/L	1.0	1		02/03/16 17:18			
Haloether 508	ND	ug/L	1.0	1		02/03/16 17:18			
Haloether 528	ND	ug/L	1.0	1		02/03/16 17:18			
Halomar	ND	ug/L	1.0	1		02/03/16 17:18			
2-Hexanone	ND	ug/L	2.0	1		02/03/16 17:18	591-78-6		
Isoflurane	ND	ug/L	1.0	1		02/03/16 17:18			
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 17:18	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 17:18	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 17:18	108-10-1		
Styrene	ND	ug/L	1.0	1		02/03/16 17:18	100-42-5	M1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 17:18	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		02/03/16 17:18	127-18-4		
Toluene	ND	ug/L	1.0	1		02/03/16 17:18	108-88-3		
Total Haloether	ND	ug/L	1.0	1		02/03/16 17:18			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:18	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/03/16 17:18	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		02/03/16 17:18	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/03/16 17:18	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/03/16 17:18	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		02/03/16 17:18	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		02/03/16 17:18	179601-23-1	M1	
o-Xylene	ND	ug/L	1.0	1		02/03/16 17:18	95-47-6	M1	
Surrogates									
Toluene-d8 (S)	97	%.	79-119	1		02/03/16 17:18	2037-26-5		
4-Bromofluorobenzene (S)	102	%.	68-124	1		02/03/16 17:18	460-00-4		
Dibromofluoromethane (S)	107	%.	72-126	1		02/03/16 17:18	1868-53-7		

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: EFFDUP-20160202		Lab ID: 2031974004		Collected: 02/02/16 09:38		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	18.8	ug/L	4.0	1		02/03/16 17:00	67-64-1		
Acrolein	ND	ug/L	8.0	1		02/03/16 17:00	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/03/16 17:00	107-13-1		
Benzene	ND	ug/L	1.0	1		02/03/16 17:00	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/03/16 17:00	75-27-4		
Bromoform	ND	ug/L	1.0	1		02/03/16 17:00	75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/03/16 17:00	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/03/16 17:00	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/03/16 17:00	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/16 17:00	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/03/16 17:00	108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/03/16 17:00	75-00-3		
Chloroform	ND	ug/L	1.0	1		02/03/16 17:00	67-66-3		
Chloromethane	ND	ug/L	1.0	1		02/03/16 17:00	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/03/16 17:00	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/03/16 17:00	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/03/16 17:00	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:00	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/03/16 17:00	10061-02-6		
Enflurane	ND	ug/L	1.0	1		02/03/16 17:00	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/03/16 17:00	100-41-4		
Haloether 229	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 406	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 421	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 427	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 428	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 508	ND	ug/L	1.0	1		02/03/16 17:00			
Haloether 528	ND	ug/L	1.0	1		02/03/16 17:00			
Halomar	ND	ug/L	1.0	1		02/03/16 17:00			
2-Hexanone	ND	ug/L	2.0	1		02/03/16 17:00	591-78-6		
Isoflurane	ND	ug/L	1.0	1		02/03/16 17:00			
Methoxyflurane	ND	ug/L	1.0	1		02/03/16 17:00	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		02/03/16 17:00	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/03/16 17:00	108-10-1		
Styrene	ND	ug/L	1.0	1		02/03/16 17:00	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/16 17:00	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		02/03/16 17:00	127-18-4		
Toluene	ND	ug/L	1.0	1		02/03/16 17:00	108-88-3		
Total Haloether	ND	ug/L	1.0	1		02/03/16 17:00			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/16 17:00	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/03/16 17:00	79-01-6		

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Sample: EFFDUP-20160202		Lab ID: 2031974004		Collected: 02/02/16 09:38		Received: 02/03/16 08:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/03/16 17:00	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/03/16 17:00	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/03/16 17:00	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		02/03/16 17:00	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		02/03/16 17:00	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		02/03/16 17:00	95-47-6		
Surrogates									
Toluene-d8 (S)	97	%.	79-119	1		02/03/16 17:00	2037-26-5		
4-Bromofluorobenzene (S)	102	%.	68-124	1		02/03/16 17:00	460-00-4		
Dibromofluoromethane (S)	108	%.	72-126	1		02/03/16 17:00	1868-53-7		

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

QC Batch: MSV/4380 Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV

Associated Lab Samples: 2031974001, 2031974002, 2031974003, 2031974004

METHOD BLANK: 196455 Matrix: Water

Associated Lab Samples: 2031974001, 2031974002, 2031974003, 2031974004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/03/16 10:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/03/16 10:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/03/16 10:11	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/03/16 10:11	
1,1-Dichloroethane	ug/L	ND	1.0	02/03/16 10:11	
1,1-Dichloroethene	ug/L	ND	1.0	02/03/16 10:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/03/16 10:11	
1,2-Dichloroethane	ug/L	ND	1.0	02/03/16 10:11	
1,2-Dichloropropane	ug/L	ND	1.0	02/03/16 10:11	
2-Butanone (MEK)	ug/L	ND	2.0	02/03/16 10:11	
2-Hexanone	ug/L	ND	2.0	02/03/16 10:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	02/03/16 10:11	
Acetone	ug/L	ND	4.0	02/03/16 10:11	
Acrolein	ug/L	ND	8.0	02/03/16 10:11	
Acrylonitrile	ug/L	ND	4.0	02/03/16 10:11	
Benzene	ug/L	ND	1.0	02/03/16 10:11	
Bromodichloromethane	ug/L	ND	1.0	02/03/16 10:11	
Bromoform	ug/L	ND	1.0	02/03/16 10:11	
Bromomethane	ug/L	ND	1.0	02/03/16 10:11	
Carbon disulfide	ug/L	ND	1.0	02/03/16 10:11	
Carbon tetrachloride	ug/L	ND	1.0	02/03/16 10:11	
Chlorobenzene	ug/L	ND	1.0	02/03/16 10:11	
Chloroethane	ug/L	ND	1.0	02/03/16 10:11	
Chloroform	ug/L	ND	1.0	02/03/16 10:11	
Chloromethane	ug/L	ND	1.0	02/03/16 10:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/03/16 10:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/03/16 10:11	
Dibromochloromethane	ug/L	ND	1.0	02/03/16 10:11	
Dibromomethane	ug/L	ND	1.0	02/03/16 10:11	
Enflurane	ug/L	ND	1.0	02/03/16 10:11	
Ethylbenzene	ug/L	ND	1.0	02/03/16 10:11	
Haloether 229	ug/L	ND	1.0	02/03/16 10:11	
Haloether 406	ug/L	ND	1.0	02/03/16 10:11	
Haloether 421	ug/L	ND	1.0	02/03/16 10:11	
Haloether 427	ug/L	ND	1.0	02/03/16 10:11	
Haloether 428	ug/L	ND	1.0	02/03/16 10:11	
Haloether 508	ug/L	ND	1.0	02/03/16 10:11	
Haloether 528	ug/L	ND	1.0	02/03/16 10:11	
Halomar	ug/L	ND	1.0	02/03/16 10:11	
Isoflurane	ug/L	ND	1.0	02/03/16 10:11	
m&p-Xylene	ug/L	ND	2.0	02/03/16 10:11	

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

METHOD BLANK: 196455

Matrix: Water

Associated Lab Samples: 2031974001, 2031974002, 2031974003, 2031974004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methoxyflurane	ug/L	ND	1.0	02/03/16 10:11	
Methylene Chloride	ug/L	ND	5.0	02/03/16 10:11	
o-Xylene	ug/L	ND	1.0	02/03/16 10:11	
Styrene	ug/L	ND	1.0	02/03/16 10:11	
Tetrachloroethene	ug/L	ND	1.0	02/03/16 10:11	
Toluene	ug/L	ND	1.0	02/03/16 10:11	
Total Haloether	ug/L	ND	1.0	02/03/16 10:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/03/16 10:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/03/16 10:11	
Trichloroethene	ug/L	ND	1.0	02/03/16 10:11	
Trichlorofluoromethane	ug/L	ND	1.0	02/03/16 10:11	
Vinyl chloride	ug/L	ND	1.0	02/03/16 10:11	
4-Bromofluorobenzene (S)	%	103	68-124	02/03/16 10:11	
Dibromofluoromethane (S)	%	105	72-126	02/03/16 10:11	
Toluene-d8 (S)	%	99	79-119	02/03/16 10:11	

LABORATORY CONTROL SAMPLE: 196456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.5	93	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	44.6	89	15-179	
1,1,2-Trichloroethane	ug/L	50	44.2	88	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	39.7	79	38-121	
1,1-Dichloroethane	ug/L	50	43.6	87	63-129	
1,1-Dichloroethene	ug/L	50	36.5	73	51-139	
1,2,3-Trichloropropane	ug/L	50	48.4	97	13-187	
1,2-Dichloroethane	ug/L	50	42.3	85	57-148	
1,2-Dichloropropane	ug/L	50	44.6	89	66-128	
2-Butanone (MEK)	ug/L	50	45.7	91	32-183	
2-Hexanone	ug/L	50	50.8	102	36-170	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.9	98	26-171	
Acetone	ug/L	50	54.7	109	22-165	
Acrolein	ug/L	100	81.1	81	10-131	
Acrylonitrile	ug/L	50	40.9	82	18-149	
Benzene	ug/L	50	47.7	95	62-131	
Bromodichloromethane	ug/L	50	41.6	83	69-132	
Bromoform	ug/L	50	50.4	101	35-166	
Bromomethane	ug/L	50	48.0	96	34-158	
Carbon disulfide	ug/L	50	32.8	66	31-128	
Carbon tetrachloride	ug/L	50	45.6	91	54-144	
Chlorobenzene	ug/L	50	50.4	101	70-127	
Chloroethane	ug/L	50	40.8	82	17-195	
Chloroform	ug/L	50	40.5	81	73-134	
Chloromethane	ug/L	50	37.8	76	17-153	

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

LABORATORY CONTROL SAMPLE: 196456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	44.2	88	68-129	
cis-1,3-Dichloropropene	ug/L	50	47.1	94	72-138	
Dibromochloromethane	ug/L	50	46.6	93	49-146	
Dibromomethane	ug/L	50	43.6	87	56-145	
Enflurane	ug/L	50	46.8	94	56-135	
Ethylbenzene	ug/L	50	48.5	97	66-126	
Haloether 229	ug/L	50	45.8	92	62-123	
Haloether 406	ug/L	50	51.3	103	62-134	
Haloether 421	ug/L	50	45.7	91	70-128	
Haloether 427	ug/L	50	49.3	99	69-153	
Haloether 428	ug/L	50	48.0	96	70-134	
Haloether 508	ug/L	50	46.4	93	52-139	
Haloether 528	ug/L	50	50.7	101	48-157	
Halomar	ug/L	50	46.2	92	62-128	
Isoflurane	ug/L	50	46.2	92	61-132	
m&p-Xylene	ug/L	100	103	103	65-129	
Methoxyflurane	ug/L	50	46.8	94	72-124	
Methylene Chloride	ug/L	50	44.4	89	46-168	
o-Xylene	ug/L	50	54.0	108	65-124	
Styrene	ug/L	50	57.0	114	72-133	
Tetrachloroethene	ug/L	50	52.6	105	46-157	
Toluene	ug/L	50	45.8	92	69-126	
Total Haloether	ug/L		523			
trans-1,2-Dichloroethene	ug/L	50	41.3	83	60-129	
trans-1,3-Dichloropropene	ug/L	50	46.2	92	59-149	
Trichloroethene	ug/L	50	46.0	92	67-132	
Trichlorofluoromethane	ug/L	50	49.3	99	39-171	
Vinyl chloride	ug/L	50	36.6	73	27-149	
4-Bromofluorobenzene (S)	%			99	68-124	
Dibromofluoromethane (S)	%			96	72-126	
Toluene-d8 (S)	%			97	79-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196457 196458

Parameter	Units	2031826010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	50.0	45.2	100	90	54-137	10	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.2	44.1	92	88	15-187	5	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	45.4	42.2	91	84	59-148	7	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	42.4	38.3	85	77	40-117	10	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.7	42.8	93	86	59-133	9	20	
1,1-Dichloroethene	ug/L	ND	50	50	40.2	36.4	80	73	44-146	10	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	49.3	48.0	99	96	14-199	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	44.4	41.2	89	82	56-154	8	20	
1,2-Dichloropropane	ug/L	ND	50	50	47.3	43.6	95	87	62-135	8	20	

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196457											
196458											
Parameter	Units	2031826010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	50	50	43.4	41.0	87	82	20-205	6	20
2-Hexanone	ug/L	ND	50	50	50.3	48.6	101	97	25-189	3	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	50.1	48.5	100	97	23-184	3	20
Acetone	ug/L	ND	50	50	48.4	46.2	93	89	11-217	5	20
Acrolein	ug/L	ND	100	100	85.4	82.6	85	83	10-142	3	20
Acrylonitrile	ug/L	ND	50	50	45.1	40.9	90	82	20-164	10	20
Benzene	ug/L	ND	50	50	50.6	46.2	101	92	52-141	9	20
Bromodichloromethane	ug/L	ND	50	50	43.6	40.5	87	81	70-134	7	20
Bromoform	ug/L	ND	50	50	52.7	49.0	105	98	37-171	7	20
Bromomethane	ug/L	ND	50	50	51.0	49.5	102	99	34-155	3	20
Carbon disulfide	ug/L	ND	50	50	38.3	33.2	77	66	28-130	14	20
Carbon tetrachloride	ug/L	0.70	50	50	49.9	44.1	98	87	48-146	12	20
Chlorobenzene	ug/L	ND	50	50	52.7	49.5	105	99	67-129	6	20
Chloroethane	ug/L	ND	50	50	45.0	44.5	90	89	12-192	1	20
Chloroform	ug/L	ND	50	50	43.3	40.0	86	80	66-143	8	20
Chloromethane	ug/L	ND	50	50	44.3	40.0	88	79	14-155	10	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	47.7	43.5	95	87	56-141	9	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	48.1	44.7	96	89	70-139	7	20
Dibromochloromethane	ug/L	ND	50	50	48.3	45.1	97	90	50-150	7	20
Dibromomethane	ug/L	ND	50	50	45.6	43.0	91	86	58-153	6	20
Enflurane	ug/L	ND	50	50	50.4	56.0	100	111	63-126	11	20
Ethylbenzene	ug/L	ND	50	50	51.1	47.5	102	95	57-135	7	20
Haloether 229	ug/L	188	50	50	224	233	72	90	56-127	4	20
Haloether 406	ug/L	3.5	50	50	54.8	46.4	103	86	68-128	17	20
Haloether 421	ug/L	ND	50	50	49.3	44.7	99	89	74-120	10	20
Haloether 427	ug/L	ND	50	50	52.7	47.7	105	95	78-120	10	20
Haloether 428	ug/L	ND	50	50	51.0	46.6	102	93	74-125	9	20
Haloether 508	ug/L	30.1	50	50	81.6	71.1	103	82	28-156	14	20
Haloether 528	ug/L	2.0	50	50	55.7	50.6	107	97	45-142	10	20
Halomar	ug/L	ND	50	50	50.4	45.8	101	92	67-123	10	20
Isoflurane	ug/L	531	50	50	617	554	171	46	45-140	11	20 M1
m&p-Xylene	ug/L	ND	100	100	108	101	108	101	56-136	7	20
Methoxyflurane	ug/L	ND	50	50	49.8	45.8	100	92	75-119	8	20
Methylene Chloride	ug/L	ND	50	50	45.2	41.2	90	82	45-166	9	20
o-Xylene	ug/L	ND	50	50	57.3	53.3	115	107	57-133	7	20
Styrene	ug/L	ND	50	50	60.0	55.2	120	110	58-144	8	20
Tetrachloroethene	ug/L	ND	50	50	56.8	51.5	113	102	48-143	10	20
Toluene	ug/L	ND	50	50	48.2	44.0	96	88	59-136	9	20
Total Haloether	ug/L	754			1340	1240				7	
trans-1,2-Dichloroethene	ug/L	ND	50	50	46.6	41.4	93	83	57-132	12	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.2	45.1	96	90	59-154	7	20
Trichloroethene	ug/L	ND	50	50	48.8	44.0	98	88	58-140	10	20
Trichlorofluoromethane	ug/L	ND	50	50	56.5	52.4	113	105	24-175	7	20
Vinyl chloride	ug/L	ND	50	50	42.7	39.1	85	78	21-150	9	20
4-Bromofluorobenzene (S)	%						100	100	68-124		

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196457											
196458											
Parameter	Units	2031826010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Dibromofluoromethane (S)	%.						99	98	72-126		
Toluene-d8 (S)	%.						97	96	79-119		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196627											
196628											
Parameter	Units	2031974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	49.3	43.9	99	88	54-137	12	20
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.0	46.2	102	92	15-187	10	20
1,1,2-Trichloroethane	ug/L	ND	50	50	46.3	42.5	93	85	59-148	9	20
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	43.2	38.5	86	77	40-117	12	20
1,1-Dichloroethane	ug/L	ND	50	50	45.1	40.8	90	82	59-133	10	20
1,1-Dichloroethene	ug/L	ND	50	50	35.7	32.4	71	65	44-146	10	20
1,2,3-Trichloropropane	ug/L	ND	50	50	53.9	48.8	108	98	14-199	10	20
1,2-Dichloroethane	ug/L	ND	50	50	45.7	42.1	91	84	56-154	8	20
1,2-Dichloropropane	ug/L	ND	50	50	48.7	44.7	97	89	62-135	9	20
2-Butanone (MEK)	ug/L	ND	50	50	43.1	40.4	86	81	20-205	6	20
2-Hexanone	ug/L	ND	50	50	51.6	49.3	103	99	25-189	5	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	52.5	48.9	105	98	23-184	7	20
Acetone	ug/L	13.3	50	50	49.5	47.8	73	69	11-217	3	20
Acrolein	ug/L	ND	100	100	7.2J	6.9J	7	7	10-142		20 M1
Acrylonitrile	ug/L	ND	50	50	42.3	39.6	85	79	20-164	6	20
Benzene	ug/L	ND	50	50	51.7	46.6	103	93	52-141	11	20
Bromodichloromethane	ug/L	ND	50	50	45.4	41.1	91	82	70-134	10	20
Bromoform	ug/L	ND	50	50	49.6	46.4	98	92	37-171	7	20
Bromomethane	ug/L	ND	50	50	51.4	46.0	103	92	34-155	11	20
Carbon disulfide	ug/L	ND	50	50	39.4	33.0	79	66	28-130	18	20
Carbon tetrachloride	ug/L	ND	50	50	48.6	44.4	97	89	48-146	9	20
Chlorobenzene	ug/L	ND	50	50	55.5	50.0	111	100	67-129	11	20
Chloroethane	ug/L	ND	50	50	45.1	40.7	90	81	12-192	10	20
Chloroform	ug/L	ND	50	50	43.2	38.7	86	77	66-143	11	20
Chloromethane	ug/L	ND	50	50	46.3	43.0	93	86	14-155	7	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	45.8	41.2	92	82	56-141	11	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	41.2	37.9	82	76	70-139	8	20
Dibromochloromethane	ug/L	ND	50	50	50.1	45.9	100	91	50-150	9	20
Dibromomethane	ug/L	ND	50	50	47.9	44.1	96	88	58-153	8	20
Enflurane	ug/L	ND	50	50	48.8	43.6	98	87	63-126	11	20
Ethylbenzene	ug/L	ND	50	50	39.0	34.9	78	70	57-135	11	20
Haloether 229	ug/L	ND	50	50	48.5	41.7	97	83	56-127	15	20
Haloether 406	ug/L	ND	50	50	45.3	40.3	91	81	68-128	12	20
Haloether 421	ug/L	ND	50	50	48.6	44.1	97	88	74-120	10	20
Haloether 427	ug/L	ND	50	50	51.1	46.5	102	93	78-120	9	20
Haloether 428	ug/L	ND	50	50	49.9	45.4	100	91	74-125	9	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 196627											
196628											
Parameter	Units	2031974003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Haloether 508	ug/L	ND	50	50	46.3	42.4	93	85	28-156	9	20
Haloether 528	ug/L	ND	50	50	46.5	41.8	93	84	45-142	11	20
Halomar	ug/L	ND	50	50	48.2	43.1	96	86	67-123	11	20
Isoflurane	ug/L	ND	50	50	48.1	43.3	96	87	45-140	10	20
m&p-Xylene	ug/L	ND	100	100	3.6	3.1	4	3	56-136	13	20 M1
Methoxyflurane	ug/L	ND	50	50	48.9	44.4	98	89	75-119	10	20
Methylene Chloride	ug/L	ND	50	50	45.0	40.5	90	81	45-166	11	20
o-Xylene	ug/L	ND	50	50	6.4	6.2	13	12	57-133	3	20 M1
Styrene	ug/L	ND	50	50	ND	ND	0	0	58-144		20 M1
Tetrachloroethene	ug/L	ND	50	50	56.9	52.0	114	104	48-143	9	20
Toluene	ug/L	ND	50	50	33.4	29.9	67	60	59-136	11	20
Total Haloether	ug/L	ND			530	477				11	
trans-1,2-Dichloroethene	ug/L	ND	50	50	44.4	39.9	89	80	57-132	11	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.8	39.3	86	79	59-154	8	20
Trichloroethene	ug/L	ND	50	50	50.2	44.8	100	90	58-140	11	20
Trichlorofluoromethane	ug/L	ND	50	50	53.2	49.0	106	98	24-175	8	20
Vinyl chloride	ug/L	ND	50	50	11.2	10.4	22	21	21-150	7	20
4-Bromofluorobenzene (S)	%.						98	97	68-124		
Dibromofluoromethane (S)	%.						95	95	72-126		
Toluene-d8 (S)	%.						95	96	79-119		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Fibers Public Supply Wells
Pace Project No.: 2031974

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fibers Public Supply Wells

Pace Project No.: 2031974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2031974001	TB-20160202	EPA 5030B/8260	MSV/4380		
2031974002	INF-20160202	EPA 5030B/8260	MSV/4380		
2031974003	EFF-20160202	EPA 5030B/8260	MSV/4380		
2031974004	EFFDUP-20160202	EPA 5030B/8260	MSV/4380		

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W0#: 2031974

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Page: 1 of 1
1110029

Section A

Required Client Information:

Company: Arcadis US, Inc.
Address: 410 North 44th St Suite 1000
Phoenix, AZ 85008
Email To: david.howard@arcadis.com
Phone:
Fax:
Purchase Order No.: CD001911.0002

Section C

Invoice Information:

Report To: David Howard
Copy To: Cassandra Meland
Address: Arcadis
Pace Quote Reference:
Pace Project Manager: Justin Stock
Pace Profile #: 103761

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ Other: CERCLA
SITE LOCATION
☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER

Section D

Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes
MATRIX DRINKING WATER DW
WASTE WATER WT
PRODUCT P
LIQUID L
SOLID S
WIRE WP
AIR AR
OTHER OT
TISSUE TS

Section D

Required Client Information

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One Character per box.

(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

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One Character per box.

(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX DRINKING WATER DW

WO#: 2031974

PM: JLS

Due Date: 02/17/16

CLIENT: 20-CHEV-ARC ARCADIS



1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Receipt

Project #: **20**

Courier: ☐ Pace Courier ☐ Hired Courier ☒ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals Intact: ☒ Yes ☐ No

Thermometer
Used:

- ☒ Therm Fisher IR 5
☐ Therm Fisher IR 6
☐ Therm Fisher IR 7

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining
contents: 1/3/16 JS

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2	
Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8	
Filtered vol. Rec. for Diss. tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10	
All containers received within manufacture's precautionary and/or expiration dates.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11	
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12	
All containers preservation checked found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13	If No, was preservative added? <input type="checkbox"/> Yes <input type="checkbox"/> No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Attachment 3
Sampling and Monitoring Field Form

Groundwater Extraction and Treatment System (GWETS) Sampling and Monitoring Field Form
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Collection Date	Sample ID	Collection Time	Sampler's Initials
Lab	TB-20160202	Lab	Lab
Feb 2, 2016	INF-20160202	0913	EDR
Feb 2, 2016	EFF-20160202	0938	EDR
Feb 2, 2016	EFF DUP-20160202	0938	EDR
Feb 2, 2016	EFF MS-20160202	0938	EDR
Feb 2, 2016	EFF MSB-20160202	0938	EDR

GWETS Operational Data at Sample Collection

Extraction Wells

RW-2	114.4	gpm
RW-4	152.8	gpm
RW-5	46.5	gpm

Compound Treatment System

Influent Flow Rate (FIT-101)	275.2	gpm
Effluent Flow Rate (FIT-301)	292.3	gpm
Blower (FIT-201A)	2556	cfm
Influent Flow Pressure (PIT-101)	3.1	psi
Effluent Flow Pressure (PIT-301)	5.8	psi
pH (pHIT-201A)	8.2	

Notes:

gpm = gallons per minute

cfm = cubic feet per minute

psi = pounds per square inch